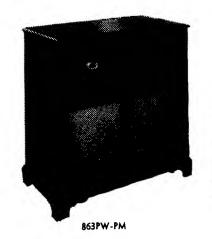


## IDENTIFICATION TABLE



Model	Chassis	Cabinet	Speaker	Phono Equip.
863PW	02100	02093	48997	{ 198992 25 Cycles
863PM	02100	02189	48997	148993 60 Cycles
863H	02100	02091	48995	None



"R" INDICATES SWITCH ELEMENTS ON REAR SIDE OF WAFER.

1F=455KC.

ALIGNMENT DATA ETC ON SHEET 93

## SPECIFICATIONS:

SI EQUITORIS.			
Power Input Rating	65 Watts		
Input Power Frequency	25-60 Cvcle		
Intermediate Frequency	455 K.C.		
Speaker Voice Coil Impedance	6-8 Ohms at 400 Cycles		
Speaker	12" P.M.		
Power Output Maximum 8	Watts: 10% Distortion 4 Watts		
Voltage Rating	105-125 Volts		
Type of Circuit	Superheterodyne		
	"A" Band 535 to 1620 K.C.		
Tuning Range	"B" Band 4.5 to 9.75 Mcs.		
	"C" Band 11.7 to 15.50 Mcs		

AC MODEL

## TUBE LAYOUT AND ALIGNMENT TRIMMER LOCATIONS ALIGNMENT PROCEDURE 863 **Band and Pointer Setting** Generator Setting Trimmer adjustment and notes. Input and Dummy Output A BAND ANT **(9)** B BAND ANT I.F. ALIGNMENT ØS **②** G 3 B BAND ANT. **Ø** Broadcast Low End of 455 kc. .1 mfd capacitor Output meter across Adjust iron cores of 2nd 1.F. L12 and L13 for maximum output. Dial pin No. 1 of 6BA6 voice coil **6U5** 6BE6 C 4 (e) 0 tube 6V6 .1 mfd. capacitor 1. Adjust iron cores of 1st 1.F. L10 and GT **6BA6** pin No. 7 of 6BE6 L11 for maximum output. B BAND tube 2. Repeat bottom core L13 of first I.F. transformer to attain maximum out-OSC A BAND 2ND I.F. overall sensitivity and correct trackø⁵ 6AT6 ing. Do not adjust any other I.F. O SC. Set pointer to calibra-R.F. ALIGNMENT "A" BAND cores after this adjustment. tion marks on dial with gang fully meshed. @ | @ | @ TOP VIEW **FRONT** A Band 1500 kc. 1500 kc. 30% Output meter across 1. Adjust B.C. oscillator trimmer capa-Standard IRE dummy C6 C7 antenna or 200 mmf. citor C5 for maximum output and modulated. voice coil A BAND B BAND C BAND OSC. OSC OSC capacitor in series to correct calibration. Ant, and Grd. 2. Adjust antenna trimmer C2 for **VOLTAGE CHART** terminal loop or loop maximum output, rocking gang for substitute must be correct peak. connected 3. Adjust B.C. oscillator iron core L7 A Band 600 kc. 600 kc. 30% for maximum output and correct 2ND.I.F. calibration. modulated 6AT6 DET.A.V.C.( 4. Adjust antenna coil iron core L2 for maximum output, rocking gang for IST. AUD. 6BA6 correct peak. I.F.AMP ... 5. Repeat 1, 2, 3, 4 until no further 230 117 6BE6 improvement is noted. CONVERTER 6U5 OUTPUT R.F. ALIGNMENT "B" BAND 100V 3 Q 230 V @ 3+ov B Band 9.5 mcs. 9.5 mcs. 400 ohm resistor Output meter across 1. Adjust oscillator trimmer capacitor (carbon) in series to C6 for maximum output and cor-6.45 ( ) ( ) ( ) ( ) ( ) voice coil TUNING 5Y3GT ® © (1) NDICATOR RECT. (2) (3) rect calibration. ذ ant, and grd. terminal 2. Adjust antenna trimmer capacitor 330+V C3 for maximum output, rocking gang for correct peak. REAR B Band 4.8 mcs. 3. Adjust B band oscillator iron core 4.8 mcs. BOTTOM VIEW ELECTROLYTIC L8 for maximum output and correct calibration. 4. Adjust antenna coil iron core L4 for maximum output, rocking gang DIALCORD ARRANGEMENT for correct peak. DIAL CORD-124011 5. Repeat 1, 2, 3 and 4 until no fur-PULLEY POINTER PULLEY ther improvement is noted. R.F. ALIGNMENT "C" BAND SET POINTER TO ALIGNMENT POINT DRIVE PULLEY C Band 15 mcs. 15 mcs. 400 chm carbon Output meter across 1. Adjust oscillator trimmer capacitor PULLEY resistor in series to voice coil C7 for maximum output and correct antenna and ground calibration. terminals. 2. Adjust antenna trimmer C4 for maximum output, rocking gang for correct peak. C Band 12 mcs. 12 mcs. PULLEY 3. Adjust "C" band oscillator iron core L9 for maximum output and correct calibration. WHEN DRIVE PULLEY & POINTER 4. Adjust antenna coil iron core L6 ARE IN POSITIONS SHOWN GANG CONDENSER IS IN CLOSED

2 TURNS

DIAL CORD ARRANGEMENT

POSITION.

1F = 455 KC. 1948-49 AC MODEL 863

CIRCUIT DATA ON SHEET 92

for correct peak.

for maximum output, rocking gang

5. Repeat 1, 2, 3 and 4 until no fur ther improvement is noted.